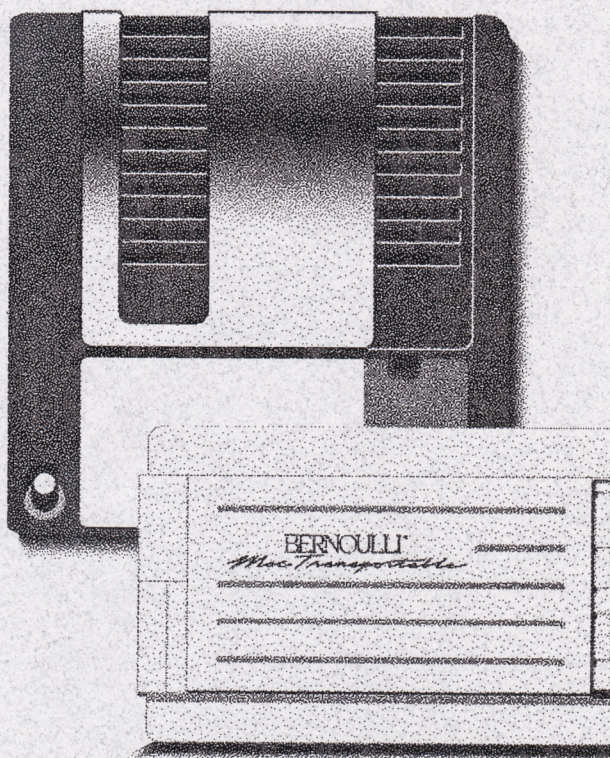# Bernoulli®
by Iomega®

MacTransportable Subsystem
Installation Guide and User's Reference

Using This Guide

This guide describes how to install and use the Bernoulli MacTransportable subsystem. Read the entire guide before beginning to install your subsystem.

System Requirements

- Mac Plus computer or later (with built-in SCSI)

- Macintosh System software, version 6.0.5 or later

- Appropriate SCSI cable for your configuration

- Iomega Driver software, version 3.5.1 or later (included with subsystem)

Check Your Equipment

CAUTION *Before handling the MacTransportable subsystem, discharge any static electricity built up on your person by touching a grounded metal object. Circuit boards and integrated circuits can be damaged by electrostatic discharge.* ■

As you unpack your MacTransportable subsystem, check each item in the box. If equipment is missing or damaged, contact your authorized Iomega dealer or Iomega Customer Service.

Bernoulli MacTransportable
Subsystem

Power Cord
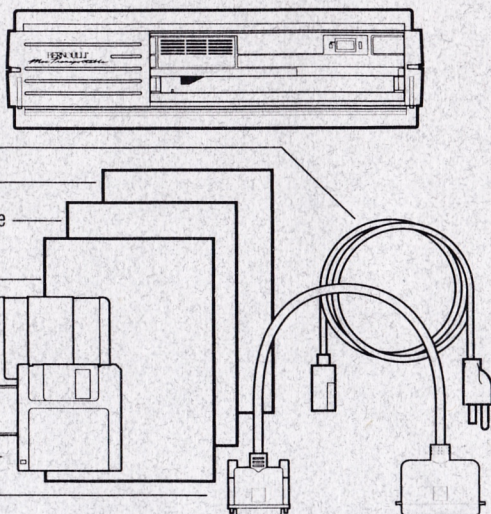Workshop Driver and Utilities Manual
Installation Guide and Users Reference

Warranty Information

Shareware Disk

Iomega Driver
and Utilities Diskette

Subsystem-to-Host Cable

Installing Your MacTransportable

1 **Set the SCSI ID switch on your MacTransportable subsystem.**
Check the SCSI ID for all devices in the SCSI chain. On most Macintosh computers, SCSI IDs 0 and 7 are used by the Macintosh leaving IDs 1 through 6 for use by other devices. Set the SCSI ID on your MacTransportable to an unused ID by pressing the "+" or "-" buttons on the SCSI ID switch.
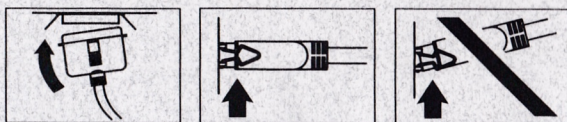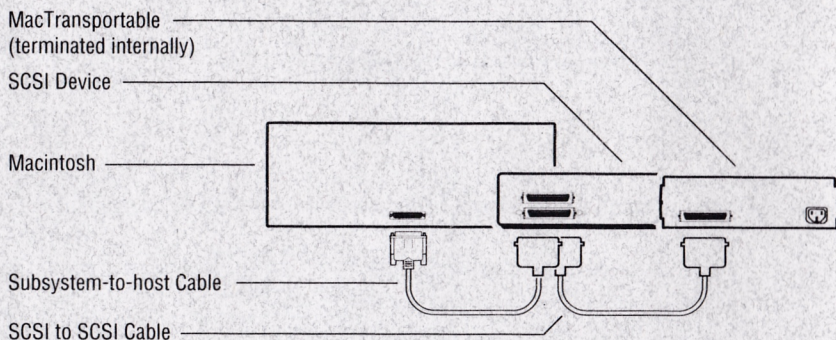
Power Switch

SCSI ID Switch
(valid ID settings 1-6)

SCSI Cable Connector

Power Cable Connector
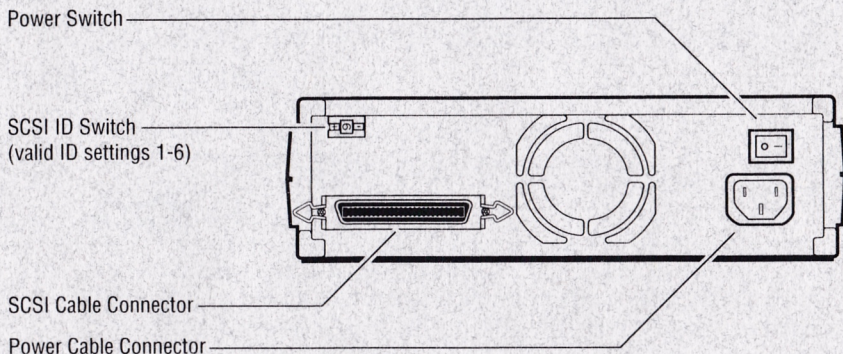
2 **Check the SCSI termination.**
The Bernoulli MacTransportable subsystem has internal termination and must be connected as the last device in the SCSI chain. If there are other devices in the SCSI chain, make sure that termination is supplied at the beginning of the chain and that termination is OFF for other devices in the chain. Termination at the beginning of the chain is usually provided by the Mac or internal hard drive. If the Mac doesn't have a hard drive or built-in termination, the first device connected to the Mac must be terminated. Refer to your Macintosh Owner's Manual if you are not sure about termination on your Macintosh.

3 Connect the MacTransportable to your computer.

Use a SCSI cable to connect the MacTransportable to your computer as shown below. Make sure the connections are straight and secure. The Mac Transportable must be connected as the last device in the SCSI chain.

MacTransportable
(terminated internally)

Macintosh

Subsystem-to-host Cable

MacTransportable
(terminated internally)
SCSI Device

Macintosh

Subsystem-to-host Cable

SCSI to SCSI Cable
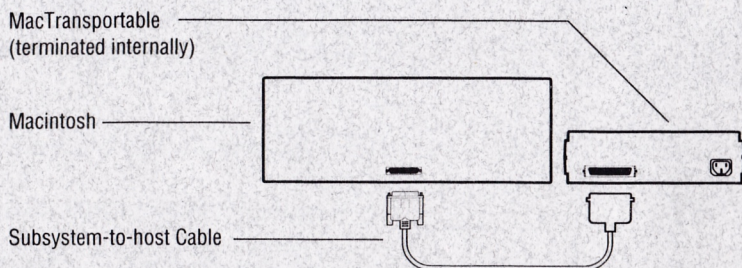
4 Connect the power cord and turn on power to the system.

Connect the power cord to the subsystem and the power source. Turn on the subsystem power switch. Start up your Macintosh using your normal startup procedure.

5 Install the Iomega Driver software.

Insert the Iomega Driver disk in your computer's floppy drive. Make sure your Startup System Folder is closed. Drag the Iomega Driver icon from the Iomega Driver disk over to the closed System Folder. If you are using System 7, respond **OK** to put the driver in the Control Panels Folder. Restart your system to load the Iomega Driver.

You can now begin using your Bernoulli drive. If your Bernoulli drive does not operate correctly, follow the suggestions under **Solving Problems**. Refer to the *Workshop Driver and Utilities Manual* for information on using the Iomega workshop and utilities.

Initializing Bernoulli Disks

To initialize a new, unformatted Bernoulli disk, insert the disk into the Bernoulli drive and choose **Initialize** from the dialog box that appears on the Desktop. To reinitialize a Bernoulli disk, use either the **Erase Disk** option from the Macintosh Special menu or the Iomega Workshop. Refer to the *Iomega Workshop Driver and Utilities Manual* for additional information on initializing Bernoulli disks.

Using the MacTransportable for Startup

You can use your Bernoulli MacTransportable as the startup device for your Macintosh. Refer to the *Iomega Workshop Driver and Utilities Manual* for more information.

Maintaining the Read/Write Heads

The automatic head cleaning system on this Bernoulli drive will maintain the read/write heads when the drive is used in a normal office environment. If your Bernoulli drive is operated continuously or in an unusually dusty or smoky environment, clean the read/write heads as needed to ensure optimum read/write performance. You can order an Iomega head cleaning kit from your authorized Iomega dealer or from Iomega Customer Service.

Temperature

Operating temperature for the Bernoulli drive is 10° to 30°C (50° to 86°F). If the drive or disk has been stored at a temperature outside these limits, allow several hours for temperature adjustment before using the drive.

CAUTION   *Never operate the Bernoulli drive when condensation is evident in or around the drive or disk. Operating the drive under such conditions could cause damage to the read/write heads in the drive or to the disk.* ∎

Solving Problems

The following suggestions should solve most problems that may occur during installation of your Bernoulli drive.

The Bernoulli drive does not turn on.

- Make sure your computer is receiving power.

- Make sure the MacTransportable power cord is fully plugged into the subsystem and the power source.

- Make sure the MacTransportable power switch is turned on (I).

- If the MacTransportable still does not turn on, contact your computer dealer or Iomega Customer Service.

Computer turns on but does not start up.

- (1) Turn off power to the computer. (2) Make sure all cable connections in the SCSI chain are secure and correct. (3) Make sure that each device in the SCSI chain (including the computer and any internal hard drive) has a unique SCSI ID. (4) Check termination in the SCSI chain (see Step 2 for detailed information). (5) Restart the computer.

Operating the Bernoulli Drive

CAUTION   *The MacTransportable subsystem must be powered on for normal disk insertion and removal in the Bernoulli drive. If the power fails while a disk is in the drive, do not attempt to remove the disk. If you must remove a disk while the drive is without power, contact Iomega Customer Service. Never force a Bernoulli disk into or out of a drive.* ■

Insert a Bernoulli disk into the drive as illustrated. Push the disk into the drive until it clicks in place. You will feel a slight resistance as the disk shutter opens. When the disk is fully inserted, it will extend from the drive about one inch. The green drive-status light flashes as the disk spins up. When the drive reaches ready status, the drive-status light glows steadily .

Amber Drive-Status Light (shows read/write activity)

Disk Release Button

Green Drive-Status Light

Write-Protect Switch
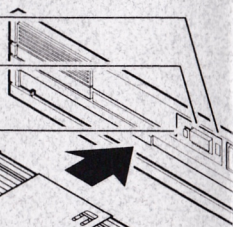
■ **Disk Release Button**   *The disk release button is disabled under normal operating conditions on Macintosh computers.* ■

To remove a disk, drag the disk icon to the trash. The green drive-status light flashes while the disk spins down. When the drive releases the disk, you will hear a slight click and the drive-status light will quit flashing; you can then easily withdraw the disk from the drive. Pull evenly and gently as the disk slides out of the drive.

Bernoulli Disk Compatibility

	150	105	65	35	90	44	20
150	●■▲	●■▲	●■▲	●■▲	●■▲*	●	
90					●■▲	●	
44						●■▲	
20							●■▲

● Read   ■ Write   ▲ Format   * Reduced Performance

- If your computer still does not start up, call Iomega Customer Service.

Disk icon for the Bernoulli drive does not appear on the Desktop.

- Make sure the MacTransportable is turned on before you start up your Mac. If the MacTransportable is not turned on before the Mac is started, it will not be recognized by the system.

- Make sure a Bernoulli disk is fully inserted in the drive. You will see the icon only when a disk is in the drive.

- Make sure the interface cable connections are secure.

  CAUTION *Electrical power should be turned off before connecting or disconnecting any cables; otherwise, computer equipment could be damaged.* ■

- Make sure you have copied the Iomega Driver to the System Folder on your startup disk. The System Folder must be closed when you copy the Iomega Driver in order for the system to install the driver correctly. If you are using System 7, select **OK** to the System prompt to put the Iomega Driver in the Control Panels Folder.

- Make sure you are using the correct disk for your drive. Refer to the Bernoulli drive compatibility table under **Operating Your Bernoulli Drive**.

Data transfer problems/Bernoulli drive or other SCSI device behaves erratically.

- Make sure that each device in the SCSI chain (including the computer and any internal hard drive) has a unique SCSI ID. If you change a switch setting, remember to turn the computer and subsystem power off and back on after the change is made so it will be recognized by the system as it starts up.

- Make sure that termination is supplied at both ends of the SCSI chain and that termination is OFF (removed) for other devices in the chain. The MacTransportable supplies termination at one end of the SCSI chain.

- Combined cable length in the SCSI chain should not exceed 6 meters (19.6 feet) including any internal cables.

Need more help solving problems?

If you need additional help with your MacTransportable, call Iomega Customer Service. Toll free support numbers are listed on the back cover of this guide.

Iomega Warranty Information

This Iomega Bernoulli drive has a two year limited warranty, and the Iomega Gold Standard Bernoulli disk has a five year limited warranty, both beginning from the date of purchase. For more complete warranty information, refer to the detailed warranty statement shipped with this product. If you did not receive the warranty statement, call Iomega Customer Service.

United States FCC Information

The computer equipment described in this installation guide generates and uses radio frequency (RF) energy. If the equipment is not installed and operated in strict accordance with the manufacturer's instructions, interference to radio and television reception may result.

■ **Interference** *This equipment complies with Part 15 of the FCC Rules and its operation is subject to the following conditions: (1) the equipment may not cause harmful interference, and (2) the equipment must accept any interference received, including interference that may cause undesired operation.* ■

Part 15, Class B, of the FCC Rules is designed to provide reasonable protection against radio and television interference in a residential installation. Although the equipment has been tested and found to comply with allowed RF emission limits, as specified in the above cited rules, there is no guarantee that interference will not occur in a particular situation. Interference can be determined by turning the equipment on and off while monitoring radio or television reception. The user may be able to eliminate any interference observed by implementing one or more of the following measures.

- Reorient the affected device and/or its receiving antenna.
- Increase the distance between the affected device and the computer equipment.
- Plug the computer and its peripherals into a different electrical circuit from that used by the affected device.

WARNING *Only the manufacturer's shielded host interface cable, or an equivalent cable, is allowed for use with this product. Other types of cables will void the manufacturer's warranty and violate FCC rules and regulations. Also, changes or modifications to the electronics or enclosure of this product must be expressly approved by Iomega; otherwise, the user's authority to operate the equipment may be voided by the FCC.* ■

Canadian DOC Information

The digital apparatus referenced in this guide does not exceed the Class B limits for radio noise emissions from digital devices as set out in the Radio Interference Regulations of the Canadian Department of Communications.

German BZT Information

Iomega certifies that the equipment referenced in this guide is in compliance with the requirements of BMPT Vfg 243/1991 RFI suppression. The normal operation of some equipment (such as signal generators) may be subject to specific restrictions. Please observe the notices in this reference guide.

The marketing and sale of the equipment was reported to the Central Office for Telecommunication Permits (BZT). The BZT has the right to retest this equipment to verify compliance with the regulation.

Contacting Iomega

Customer assistance is available worldwide during normal business hours. Please have the following information ready when contacting Iomega Customer Service: (1) Drive model number/serial number, (2) Computer make/configuration, (3) Adapter card make/configuration, (4) Software version numbers of your driver and utility software. If possible, try to be seated near your computer when calling. Toll-free numbers are listed below. If you are unable to access a toll-free number, call one of the corporate numbers.

Mailing Addresses and Corporate Phone Numbers:

Iomega Corporation
1821 West Iomega Way
Roy, Utah 84067-9977
USA
(801) 778-3000

Iomega Europe GmbH
Bötzinger Strasse 48
79111 Freiburg
Germany
49 (0) 761-45040

Toll Free Support Numbers:

USA (800)456-5522	D 0130-824544	GB 0800-898563	E 900-994910
CAN (800)456-5522	I 1678-78360	CH -D 155-4297	N 050-11125
B 078-112117	NL 06-0222967	CH -F 155-4296	DK 8001-0889
F 05-904057	S 020-795512	A 0660-8911	SF 9800-14930

Other Information Channels:

FAX (USA)	(801) 778-3460 (24 hours)
FAX (Europe)	49 (0) 761-4504414 (24 hours)
Iomega Bulletin Board (USA)	(801) 392-9819 (24 hours)
Iomega Bulletin Board (Europe)	49 (0) 761-4504444 (24 hours)
CompuServe*	DOS Users: Go PCVENE
	MAC Users: Go MACCVEN
Internet	info@iomega.com
AppleLink*	Iomega.TS
America Online™	Keyword: Iomega

Iomega and Bernoulli are registered trademarks of Iomega Corporation. OAD is a trademark of Iomega Corporation. Macintosh is a registered trademark of Apple Computer, Inc. All other company and product names metioned are trademarks of their respective companies. Copyright ⁰ 1993 Iomega Corporation. Printed in U.S.A.

EN050601   **iOMEGA**™   Printed on recycled paper ♻